BRUHATH BANGALORE MAHANAGARA PALIKE
Yelahanka Zone, Kodigehalli Sub Division

Name of the work: **Emergency works in ward no. 08, kodigehalli**

Ward No. 08 **Est. Cost Rs. : 3000000.00**

Sl. No.	Description	Unit	No.	L (m)	B (m)	D/H (m)	Quantity	Rate (Rs.)	Amount (Rs.)
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. - reinforced cement concrete grade M20 and above (PWDSR 2018-19, P.139, I. 18.19)								
	For damaged RCC culvert slabs	1	10	5.75	1.50	0.23	19.83		
	steps on Bhadrappa layout 3rd crs	1	1	6.00	1.80	0.15	1.62		
		1	1	6.00	1.50	0.15	1.35		
		1	1	6.00	1.20	0.15	1.08		
		1	1	6.00	0.90	0.15	0.81		
		1	1	6.00	0.60	0.15	0.54		
		1	1	6.00	0.30	0.15	0.27		
		cum					25.50	1684.34	42951.0
	Basic Rate	1589.00							
	Area Weightage @ 6%	95.34							
	Total	1684.34							
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. - rubble stone masonry in cement mortar (PWDSR 2018-19, P.140, I. 18.27)								
	drain work	2	10	5.75	0.45	0.80	41.40		
		cum					41.40	372.06	15403.0
	Basic Rate	351.00							
	Area Weightage @ 6%	21.06							
	Total	372.06							
3	KSRRB M2100-5.1 Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification NO. 304 V Marshy soil. B. in Marshy soil upto 3m depth (By mechanical means) (PWDSR 2018-19, P.221, I. 27.13)								
	Drain work	1	10	5.75	0.60	0.60	20.70		
	RCC culverts	1	10	5.75	2.10	0.50	60.37		
	For steps	1	1	6.00	1.80	0.20	2.16		
		cum					83.23	199.81	16630.00
	Basic Rate	145.00	130						

Sl. No	Description	Unit	No.	L (m)	B (m)	D/H (m)	Quantity	Rate (Rs.)	Amount (Rs.)
	Add 20% extra for dewatering	29.00							
	Add 10% extra for shoring and shuttering	14.50							
	Sub Total	188.50							
	Area Weightage @ 6%	11.31							
	Total	199.81							
4	Providing and filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.. (PWDSR 2018-19, P.No.7, I.No.2.15)								
	for culverts	1	10	5.75	2.10	0.30	36.22		
		cum					36.22	2574.74	93257.00
	Basic Rate	2429.00							
	Area Weightage @ 6%	145.74							
	Total	2574.74							
5	KSRRB M2100-13. Plain / reinforced cement concrete M15 with OPC cement @ 240 kgs with 40mm and downsize graded granite metal coarse aggregages @ 0.84 cum and fine aggregates @ 0.43 cum in open foundation complete as per drawing and technical specifications. MORTH specifications NO. 1500,1700 & 2100 (PWDSR 2018-19, P.222, I. 27.24)								
	for culverts	1	10	5.75	2.10	0.15	18.11		
		cum					18.11	5409.18	97960.00
	Basic Rate	5103.00							
	Area Weightage @ 6%	306.18							
	Total	5409.18							
6	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1: 6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. - **Available stones** (PWDSR 2018-19, P.No.255, I No.34.8.2)								
	For SSM drain	40% of qty vide item No. 2					16.56		
		cum					16.56	3135.48	51924.00
	Basic Rate	4596.00							
	Less size stone recurred (105 nos/cum) 105*13/- (P.No. III, sl no. 70)	1365.00							
	Deduct 10% overhead chargers	136.50							
	Deduct 10% contractors profit	136.50							
	Sub Total	2958.00							
	Area Weightage @ 6%	177.48							
	Total	3135.48							
7	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1: 6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. - **New stones** (PWDSR 2018-19, P.No.255, I No.34.8.2)								
						av.			
	for culverts	10	2	5.75	(0.60+0.75)/2	0.90	69.86		

Sl. No.	Description	Unit	No.	L (m)	B (m)	D/H (m)	Quantity	Rate (Rs.)	Amount (Rs.)
		cum					69.86		
	Deduct qty item No. 7	cum					-16.56		
							53.30	4871.76	259665.00
	Basic Rate	4596.00							
	Area Weightage @ 6%	275.76							
	Total	4871.76							
8	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work..(PWDSR 2018-19, P No.256, I No.34.13.2)								
	for culverts	10	2	5.75		0.90	103.50		
	Sub Total	sqm					103.50	150.52	15579.00
	Basic Rate	142.00							
	Area Weightage @ 6%	8.52							
	Total	150.52							
9	Providing and laying in position plain cement concrete of mix 1:2:4 with cement at 240 kg, with 20mm and down size graded granite metal coarse aggregate at 0.69 cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted for coping including cost of all materials, labour, HOM of machinery, curing, complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2018-19, P.No.255 / I.No.34.11)								
	for culverts	10	2	5.75	0.60	0.10	6.90		
	For vent	10	1	5.75	0.60	0.15	5.17		
	For culvert ramps	10	2	5.75	0.20	0.15	3.45		
							15.52	5599.98	86912.00
	Basic Rate	5283.00							
	Area Weightage @ 6%	316.98							
	Total	5599.98							
10	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. - 100 mm thick (Approved data rate enclosed)								
	Missing slabs on drains	1	100	0.60	0.90		54.00		
							54.00	2100.00	113400.00
11	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. - 200 mm thick (Approved data rate enclosed)								
	For culverts	10	1	5.75	1.80		103.50		
							103.50	4402.79	455689.00

Sl. No.	Description	Unit	No.	L (m)	B (m)	D/H (m)	Quantity	Rate (Rs.)	Amount (Rs.)
12	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5. (PWDSR 2018-19, P.No. 6, I.No. 2.4)								
	Steel board fixing	cum	110	0.45	0.45	0.75	16.70		
	steps on Bhadrappa layout 3rd crs	1	1	6.00	1.80	0.20	2.16		
							18.86	475.94	8976.00
	Basic Rate	449.00							
	Area Weightage @ 6%	26.94							
	Total	475.94							
13	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page No. 13, Item No. 4.3 PWD SR 2018-19)								
	Steel board fixing	cum	110	0.45	0.45	0.15	3.34		
	Steel board fixing	cum	1	6.00	1.80	0.15	1.62		
							4.96	5408.12	26824.00
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	5408.12							
14	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.6 of PWD SR 2018-19)								
	Steel board fixing	cum	110	0.45	0.45	0.60	13.36		
	Old broken fallen steel boards	cum	102	0.45	0.45	0.60	12.39		
							25.75	5747.32	147993.00
	Basic Rate	5422.00							
	Area Weightage @ 6%	325.32							
	Total	5747.32							

Sl. No	Description	Unit	No.	L (m)	B (m)	D/H (m)	Quantity	Rate (Rs.)	Amount (Rs.)
	KSRRB M800-3. *Direction and Place Identification Signs upto 0.9 sqm Size Board:- Manufacturing, supply and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier.(Page.No.180, Item No.24.3. PWD SR 2018-19)*								
	Steel board fixing	No.	110				110.00		
							110.00	7557.80	831358.00
	Basic Rate	7130.00							
	Area Wtg 6%	427.80							
	Total	7557.80							
16	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (Page No. 122 Item No. 15.74 of SR 2018-19)								
	Steel board fixing	sqm	212	0.01		2.00	4.24		
		sqm	212	0.60	2.00	0.75	190.80		
	Old existing boards	sqm	250	0.01		2.00	5.00		
		sqm	250	0.60	2.00	0.75	225.00		
							425.04	100.70	42802.00
	Basic Rate	95.00							
	Area Weightage @ 6%	5.70							
	Total	100.70							
17	KSRRB M800-10. Painting new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade complete as per specifications. ("ii) English and Roman - Hyphen and the like not to be measured and paid for " MORTH Specification No.801 (I. 24.10, P. 181 SR 2018-19)								
	Steel board fixing	cm	212	30.00		5.00	31800		
		cm	212	40.00	2.00	5.00	84800		
	Old existing boards	cm	250	60.00		5.00	75000		
							191600	0.74	141784.00
	Basic Rate	0.70							
	Area Weightage @ 6%	0.04							
	Total	0.74							

Sl. No	Description	Unit	No.	L (m)	B (m)	D/H (m)	Quantity	Rate (Rs.)	Amount (Rs.)
	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. (Page No. 18, Item No. 4.49.1, PWD SR 2018-19)								
	steps on Bhadrappa layout 3rd crs	1	1	6.00	1.80	0.15	1.62		
		1	1	6.00	1.50	0.15	1.35		
		1	1	6.00	1.20	0.15	1.08		
		1	1	6.00	0.90	0.15	0.81		
		1	1	6.00	0.60	0.15	0.54		
		1	1	6.00	0.30	0.15	0.27		
							5.67	5770.64	32720.00
	Basic Rate	5444.00							
	Area Weightage @ 6%	326.64							
	Total	5770.64							
19	KSRB 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (Page No. 19, Item No. 4.46.2, PWD SR 2018-19)								
	For steps					0.00			
	step-1, 10 dia	1	40	15.60	@	0.62	386.88	kg	
	dist, 10 dia	1	24	6.00	@	0.62	89.28	kg	
	step-2	1	40	15.00	@	0.62	372.00	kg	
	dist, 10 dia	1	20	6.00	@	0.62	74.40	kg	
	step-3	1	40	14.40	@	0.62	357.12	kg	
	dist, 10 dia	1	16	6.00	@	0.62	59.52	kg	
	step-4	1	40	13.80	@	0.62	342.24	kg	
	dist, 10 dia	1	12	6.00	@	0.62	44.64	kg	
	step-5	1	40	13.20	@	0.62	327.36	kg	
	dist, 10 dia	1	8	6.00	@	0.62	29.76	kg	
	step-6	1	40	12.60	@	0.62	312.48	kg	
	dist, 10 dia	1	4	6.00	@	0.62	14.88	kg	
							2410.56	kg	
		Tonnes				Total	2.41	75255.76	181366.00
	Basic Rate	70996.0							
	Area Weightage @ 6%	4259.8							
	Total	75255.8							
20	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 15.00 Km (Page No.140)								
	Qty vide item No. 1+3+4	Cum					108.73	87.56	9520.00
	Basic rate for haulage of materials as per item no.17.4 page 136) Rs. 2.00								

Sl. No	Description	Unit	No.	L (m)	B (m)	D/H (m)	Quantity	Rate (Rs.)	Amount (Rs.)
	Average weight of earth 1.28 tonne / kg for 2.00X1.28X10.00	25.60							
	Add loading and unloading Vide item no.17.1 P.no.134	57.00							
		82.60							
	Area Weightage @ 6%	4.96							
	Total	87.56							
19	Sub-Total-1								**2672713.00**
20	Add GST charges at 12%						12.00		320726.00
21	Miscellaneous & Rounding off							L/S	6561.00
	Total Rs								**3000000.00**

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.
5 This work has not been taken previously under any other grant.

Assistant Engineer
Ward no. 08
Kodigehalli

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

Administrative Approval
Accorded For Rs. 30.00 lakhs
Head of A/C P1771
CER NO :...87..... Dt:25.07.19

TA CE (YNK)

Technical Sanction
Accorded For Rs 30.00 lakhs
Head of A/C..P1771.....
CER NO :...62..... Dt:25.02.19

TA CE (YNK)